

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: October 3, 2003, 13:07:17 ; Search time 110 Seconds  
(without alignments)  
6540.496 Million cell updates/sec

Title: US-09-856-836-1  
Perfect score: 1630  
Sequence: 1 ttaccctaccgtaggga.....atgcctctaaataaaaaa 1630

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents NA:  
1: /cgn2\_6/ptodata/1/ina/5A.COMB.seq.\*  
2: /cgn2\_6/ptodata/1/ina/5B.COMB.seq.\*  
3: /cgn2\_6/ptodata/1/ina/6A.COMB.seq.\*  
4: /cgn2\_6/ptodata/1/ina/6B.COMB.seq.\*  
5: /cgn2\_6/ptodata/1/ina/PCRTUS.COMB.seq.\*  
6: /cgn2\_6/ptodata/1/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Match	Length	DB ID	Description
1	1011.4	62.0	1820	2	US-08-828-922-2
2	240.8	14.8	686	3	US-09-040-984-36
3	240.8	14.8	686	4	US-09-123-912-36
4	240.8	14.8	686	4	US-09-643-597-36
5	240.8	14.8	686	4	US-09-480-884A-36
6	240.8	14.8	686	4	US-09-542-615A-36
7	240.8	14.8	686	4	US-09-606-421B-36
8	50.6	3.1	7218	1	US-08-232-463-14
9	48.2	3.0	577	3	US-09-385-982-449
10	48.2	3.0	647	3	US-09-385-982-323
11	45.8	2.8	2152	1	US-08-188-582-17
12	45.8	2.8	2152	1	US-08-646-715-17
13	44.2	2.7	1221	3	US-08-965-600-2
14	44.2	2.7	1221	4	US-09-489-506-2
15	42.6	2.6	1326	4	US-09-620-312D-867
16	41.6	2.6	305	4	US-09-313-294A-6073
17	39.8	2.4	3067	4	US-09-016-434-1285
18	39.6	2.4	2085	2	US-08-283-917-8
19	39.6	2.4	2085	2	US-08-361-716-8
20	39.4	2.4	2130	4	US-09-620-312D-145
21	37.8	2.3	1607	2	US-08-883-534-2
22	37.8	2.3	1607	3	US-09-204-764-2
23	37.8	2.3	1674	4	US-09-620-312D-593
24	37.6	2.3	7042	3	US-09-092-508-1
25	37.6	2.3	7042	4	US-09-435-115-1
26	37.6	2.3	7042	4	US-09-098-310-1
27	37.6	2.3	7042	4	US-09-690-364-21

28 37.6 2.3 7075 3 US-09-092-508-15 Sequence 15, Appl  
29 37.6 2.3 7075 4 US-09-435-115-15 Sequence 15, Appl  
30 37 2.3 1215 4 US-08-936-165A-63 Sequence 63, Appl  
31 36.8 2.3 7881 2 US-08-751-189-1 Sequence 1, Appl  
32 36.8 2.3 7881 3 US-09-060-836-1 Sequence 1, Appl  
33 36.8 2.3 7881 2 US-09-184-445-1 Sequence 1, Appl  
34 36.4 2.2 689 4 US-09-252-991A-7576 Sequence 7576, Ap  
35 36.4 2.2 1152 4 US-09-252-991A-7729 Sequence 7729, Ap  
36 36.4 2.2 1215 4 US-09-252-991A-7837 Sequence 7837, Ap  
37 36.4 2.2 1581 4 US-09-252-991A-7755 Sequence 7755, Ap  
38 35.8 2.2 1368 3 US-08-972-927-8 Sequence 8, Appl  
39 35.6 2.2 1254 4 US-09-134-001C-973 Sequence 973, App  
40 35.4 2.2 8743 3 US-09-081-320-1 Sequence 1, Appl  
41 35.4 2.2 8743 4 US-09-571-141A-1 Sequence 1, Appl  
42 35.4 2.2 8743 4 US-09-707-780-1 Sequence 1, Appl  
43 35.2 2.2 2343 4 US-09-641-638-652 Sequence 652, App  
44 35.2 2.2 4258 3 US-07-765-830A-5 Sequence 5, Appl  
45 35 2.1 2272 4 US-09-108-857-1 Sequence 1, Appl

## ALIGNMENTS

RESULT 1  
US-08-828-922-2  
; Sequence 2, Application US/08828922  
; Patent No. 5834240  
; GENERAL INFORMATION:  
; APPLICANT: Olga, Bandman  
; TITLE OF INVENTION: TRANSFORMING GROWTH FACTOR-B RECEPTOR  
; TITLE OF INVENTION: ASSOCIATED PROTEIN  
; NUMBER OF SEQUENCES: 3  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/828,922  
; FILING DATE: Herewith  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J.  
; REGISTRATION NUMBER: 36,749  
; REFERENCE/DOCKET NUMBER: PF-0258 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-855-0555  
; TELEFAX: 415-845-4166  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1820 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: BRAITUT01  
; CLONE: 753423  
; US-08-828-922-2

Query Match 62.0%; Score 1011.4; DB 2; Length 1820;  
Best Local Similarity 83.3%; Pred. No. 4.7e-299;







[illegible]





US-08-965-600-2  
; Sequence 2, Application US/08965600  
; Patent No. 6077688  
; GENERAL INFORMATION:  
; APPLICANT: Bandman, Olga  
; APPLICANT: Lal, Preeti  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Shah, Purvi  
; TITLE OF INVENTION: NEW TRANSDUCIN BETA-1 SUBUNIT  
; NUMBER OF SEQUENCES: 3  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/965,600  
; FILING DATE: Herewith  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J,  
; REGISTRATION NUMBER: 36,749  
; REFERENCE/DOCKET NUMBER: PF-0416 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 650-855-0555  
; TELEFAX: 650-845-4166  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1221 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: KIDNOT02  
; CLONE: 194046  
; US-08-965-600-2

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Best Local Similarity 49.1%; Pred. No. 0.0032;  
Matches 115; Conservative 0; Mismatches 119; Indels 0; Gaps 0;  
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Db 568 AGCCAGTGGGACCATAGATGAATCAATCAATATTTTGTATATTCGAAGTGGAAA 621

RESULT 14  
US-09-489-506-2  
; Sequence 2, Application US/09489506  
; Patent No. 6463619

GENERAL INFORMATION:  
; APPLICANT: Bandman, Olga  
; APPLICANT: Lal, Preeti  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Shah, Purvi  
; TITLE OF INVENTION: NEW TRANSDUCIN BETA-1 SUBUNIT  
; NUMBER OF SEQUENCES: 3  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
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; SOFTWARE: FastSeq for Windows Version 2.0  
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; APPLICATION NUMBER: US/09/489,506  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/08/965,600  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J,  
; REGISTRATION NUMBER: 36,749  
; REFERENCE/DOCKET NUMBER: PF-0416 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 650-855-0555  
; TELEFAX: 650-845-4166  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1221 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: KIDNOT02  
; CLONE: 194046  
; US-09-489-506-2

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Best Local Similarity 49.1%; Pred. No. 0.0032;  
Matches 115; Conservative 0; Mismatches 119; Indels 0; Gaps 0;  
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Db 388 TGCAGACCTGTGGATGCTGATTTGGCTTTTCTGATCCAGATATCGGCCAC 447  
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QY 925 TGCAGCGGTCTGAGATGGACATTCAGATTCAGATTCAGTCTGTATGGGAACTCTA 978  
Db 568 AGCCAGTGGGACCATAGATGAATCAATCAATATTTTGTATATTCGAAGTGGAAA 621

RESULT 15  
US-09-620-312D-867  
; Sequence 867, Application US/09620312D  
; Patent No. 6569662  
; GENERAL INFORMATION:  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Liu, Chenghua



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/ APPLICANT: Asundi, Vinod
/ APPLICANT: Zhang, Jie
/ APPLICANT: Ren, Feiyan
/ APPLICANT: Chen, Rui-hong
/ APPLICANT: Zhao, Qing A.
/ APPLICANT: Wehrman, Tom
/ APPLICANT: Xue, Aidong J.
/ APPLICANT: Yang, Yonghong
/ APPLICANT: Wang, Jian-Rui
/ APPLICANT: Zhou, Ping
/ APPLICANT: Ma, Yungling
/ APPLICANT: Wang, Dunrui
/ APPLICANT: Wang, Zhiwei
/ APPLICANT: John Tillinghast
/ APPLICANT: Drmanac, Radoje T.
/ TITLE OF INVENTION: No. 6569662el Nucleic Acids and
/ TITLE OF INVENTION: Polypeptides
/ FILE REFERENCE: 784CIP2B
/ CURRENT APPLICATION NUMBER: US/09/620,312D
/ CURRENT FILING DATE: 2000-07-19
/ PRIOR APPLICATION NUMBER: 09/552,317
/ PRIOR FILING DATE: 2000-04-25
/ PRIOR APPLICATION NUMBER: 09/488,725
/ PRIOR FILING DATE: 2000-01-21
/ NUMBER OF SEQ ID NOS: 1105
/ SOFTWARE: PL_FL_genes Version 1.0
/ SEQ ID NO 867
/ LENGTH: 1326
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (307)..(1068)
US-09-620-312D-867
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Best Local Similarity 48.7%; Pred. No. 0.01;
Matches 114; Conservative 0; Mismatches 120; Indels 0; Gaps 0;

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QY 805 GGGTGGAGAGACTTTAAACTGTACAAGTATGATTATAACAGTGGAGAGAGTTAGAATC 864
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QY 925 TGCCAGCGTCTGAGAGTGGACATTCAGATTCGTGCAAACTGTGTAGGAAA 978
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Search completed: October 3, 2003, 13:09:19  
Job time : 113 secs

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: October 3, 2003, 13:07:17 ; Search time 984 Seconds  
(without alignments)  
4225.515 Million cell updates/sec

Title: US-09-856-836-1  
Perfect score: 1630  
Sequence: 1 tttaacgctaccgtaggga.....atgctctaaataaaaaa 1630

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 1708419 seqs, 1275431651 residues  
Total number of hits satisfying chosen parameters: 3416838

Minimum DB seq length: 0  
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Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

- Database : Published Applications, NA:\*
- 1: /cgn2\_6/ptodata/1/pubpna/US07\_PUBCOMB.seq.\*
  - 2: /cgn2\_6/ptodata/1/pubpna/US07\_PUBCOMB.seq.\*
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  - 4: /cgn2\_6/ptodata/1/pubpna/US06\_PUBCOMB.seq.\*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result No.	Query			ID	Description
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1	805.4	49.4	1430	9	US-09-925-301-520 Sequence 520, App
2	438.4	28.1	646	13	US-10-027-632-267705 Sequence 267705,
3	456.8	28.0	646	13	US-10-027-632-267704 Sequence 267704,
4	375.8	23.1	437	10	US-09-960-352-8644 Sequence 8644, Ap
5	374.6	23.0	542	14	US-10-066-543-3341 Sequence 3341, Ap
6	351.2	21.5	509	14	US-10-066-543-3384 Sequence 3384, Ap
7	301.8	18.5	427	11	US-09-918-995-32982 Sequence 32982, A
8	243	14.9	313	9	US-09-815-343-740 Sequence 740, App
9	243	14.9	313	10	US-09-998-598-1947 Sequence 1947, Ap
10	240.8	14.8	686	9	US-09-735-705-36 Sequence 36, Appl
11	240.8	14.8	686	10	US-09-850-716A-36 Sequence 36, Appl
12	240.8	14.8	686	10	US-09-897-778-36 Sequence 36, Appl
13	240.8	14.8	686	11	US-09-466-396A-36 Sequence 36, Appl
14	240.8	14.8	686	12	US-10-117-982-36 Sequence 36, Appl
15	237.2	14.6	311	10	US-09-920-455-140 Sequence 140, App
16	227.2	13.9	533	13	US-10-027-632-267706 Sequence 267706,

SUMMARIES

17	213.6	13.1	1002	10	US-09-938-842A-510 Sequence 510, App
18	206.6	12.7	474	11	US-09-918-995-22718 Sequence 22718, A
c 19	170.4	10.5	197	14	US-10-102-524-57 Sequence 57, Appl
c 20	170.4	10.5	361	10	US-09-998-598-2482 Sequence 2482, Ap
c 21	153.2	9.4	355	11	US-09-918-995-18802 Sequence 18802, A
c 22	153.2	9.4	469	9	US-09-770-444-220 Sequence 220, App
c 23	109.4	6.7	419	10	US-09-969-708-323 Sequence 323, App
c 24	91.2	5.6	334	13	US-10-027-632-267707 Sequence 267707,
c 25	88.8	5.4	558	13	US-10-027-632-267708 Sequence 267708,
c 26	88.8	5.4	558	13	US-10-027-632-267709 Sequence 267709,
c 27	73.8	4.5	463	10	US-09-924-035A-278 Sequence 278, App
c 28	65.2	4.0	262	9	US-09-923-876-3070 Sequence 3070, Ap
c 29	65	4.0	65	12	US-09-908-975-28597 Sequence 28597, A
c 30	64.2	3.9	346	10	US-09-796-692-7155 Sequence 7155, Ap
c 31	64.2	3.9	346	14	US-10-040-862-7155 Sequence 7155, Ap
c 32	53.6	3.3	727	10	US-09-771-035A-21 Sequence 21, Appl
c 33	50.2	3.1	467	11	US-09-918-995-14679 Sequence 14679, A
c 34	49.6	3.0	391	9	US-09-770-791-2 Sequence 2, Appl
c 35	49.4	3.0	542	11	US-09-991-936-1500 Sequence 1500, Ap
c 36	48.2	3.0	577	11	US-09-871-161-449 Sequence 449, App
c 37	48.2	3.0	647	11	US-09-871-161-323 Sequence 323, App
c 38	48.2	3.0	718	14	US-10-198-846-3284 Sequence 3284, Ap
c 39	48.2	3.0	892	14	US-10-198-846-5866 Sequence 5866, Ap
c 40	48.2	3.0	1280	12	US-10-119-428-29 Sequence 29, Appl
c 41	48.2	3.0	1812	14	US-10-198-846-12998 Sequence 12998, A
c 42	47.8	2.9	1374	12	US-10-119-428-30 Sequence 30, Appl
c 43	44.6	2.7	362	10	US-09-960-352-3338 Sequence 3338, Ap
c 44	44.6	2.7	436	10	US-09-960-352-2621 Sequence 2621, Ap
c 45	44.6	2.7	437	10	US-09-960-352-9500 Sequence 9500, Ap

ALIGNMENTS

RESULT 1

US-09-925-301-520  
; Sequence 520, Application US/0925301  
; Patent No. US20020052308A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
; FILE REFERENCE: PA106  
; CURRENT APPLICATION NUMBER: US/09/925,301  
; CURRENT FILING DATE: 2001-08-10  
; PRIOR APPLICATION NUMBER: PCT/US00/05882  
; PRIOR FILING DATE: 2000-03-08  
; PRIOR APPLICATION NUMBER: 60/124,270  
; PRIOR FILING DATE: 1999-03-12  
; NUMBER OF SEQ ID NOS: 1694  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 520  
; LENGTH: 1430  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (104)  
; OTHER INFORMATION: n equals a,t,g, or c  
; NAME/KEY: misc\_feature  
; LOCATION: (105)  
; OTHER INFORMATION: n equals a,t,g, or c  
; NAME/KEY: misc\_feature  
; LOCATION: (1428)  
; OTHER INFORMATION: n equals a,t,g, or c  
; US-09-925-301-520

Query Match 49.4%; Score 805.4; DB 9; Length 1430;  
Best Local Similarity 82.0%; Pred. No. 1.5e-238;  
Matches 1091; Conservative 0; Mismatches 201; Indels 38; Gaps 13;  
QY 326 TTACAGCCAAAGTATGGGATGGCTCTCAGGAGATGAATGACCCCTGCTATAG 385  
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DB 39 TTACAGCCAAAGTATGGGATGGCTCTCAGGAGATGAATGACCCCTGCTATAG 98  
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Db 181 TTGTGTAATAACTATGAGGAGATCTATTGCTTTTCATATAGTCAGTAAGTTGGACCCAA 240  
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QY 795 TTCTTCTGCGGGTGGAGAGACTTTAAACTGTACAAGTATGATATATAACAGTGGAGAG 854  
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QY 855 AGTTAGATCTTACAAAGGTCACCTTTGGTCCCAATTCAGTGTGAGAGTCACTCTCTGANG 914  
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QY 915 GGGAACTCTATGCCAG 930  
Db 421 GAGAACTCTATGCCAG 436

## RESULT 5

US-10-066-543-3341  
; Sequence 3341, Application US/10066543  
; Publication No. US20030087818A1  
; GENERAL INFORMATION:  
; APPLICANT: Jiang, Yugu  
; APPLICANT: Pyle, Ruth A.  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Indrias, Carol Yoseph  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Carter, Darrick  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Smith, Carole L.  
; APPLICANT: Durham, Margarita  
; APPLICANT: Stolk, John A.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; FILE REFERENCE: 210121.563  
; CURRENT APPLICATION NUMBER: US/10/066,543  
; CURRENT FILING DATE: 2002-01-31  
; NUMBER OF SEQ ID NOS: 3417  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 3341  
; LENGTH: 542  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-066-543-3341

Query Match 23.08; Score 374.6; DB 14; Length 542;  
Best Local Similarity 84.0%; Pred. No. 3.6e-105;  
Matches 458; Conservative 0; Mismatches 81; Indels 6; Gaps 3;  
QY 734 ATTAATCTTTGAGGCTCTCGGACCATCAATTCGCTCTNTTCATCCAGAGAGAG 793  
Db 1 ATTAATCTTTGAGGCTCTCGGACCATCAATTCGCTCTNTTCATCCAGAGAGAG 60  
QY 794 TTCTTCTGCGGGTGGAGAGACTTTAAACTGTACAAGTATGATATATAACAGTGGAGAG 853  
Db 61 TTCTTCTGCGGGTGGAGAGACTTTAAACTGTACAAGTATGATATATAACAGTGGAGAG 120  
QY 854 GAGTTAGATCTTACAAAGGTCACCTTTGGTCCCAATTCAGTGTGAGAGTCACTCTCTGAT 913  
Db 121 GAATTAAGATCTTACAAAGGTCACCTTTGGTCCCAATTCAGTGTGAGAGTCACTCTCTGAT 180  
QY 914 GGGAACTCTATGCCAGGCTCTGAGATGGAGACTTGAAGTGGAGACTTGGCAACTGTGTA 973  
Db 181 GGGAACTCTATGCCAGGCTCTGAGATGGAGACTTGAAGTGGAGACTTGGCAACTGTGTA 240  
QY 974 GGAAGACCTATGCGCTGTGGAATGCGTNTTCTGAGGAGACAGCGGGGAACTGGCA 1033  
Db 241 GGAAGACCTATGCGCTGTGGAATGCGTNTTCTGAGGAGACAGCGGGGAACTGGCA 300  
QY 1034 AACCCAAAGATCGGATTTCCAGAAACAGCAGAGAGAGAGCTGGCAGAGAAATTTGCTTCA 1093

Db 301 AGCCAAAGATTTGTTTCCAGACACACAGAGAGGCT---AGAAGAAATTTGCTTCA 357  
QY 1094 GAGATTTCAGATTCCTGATTCATCACTCTCTGAAAGTTAAGGCTTGAAGTCAAGAGTG 1153  
Db 358 GAGATTTCAGATTCCTGATTCATCACTCTCTGAAAGTTAAGGCTTGAAGTCAAGAGTG 417  
QY 1154 TCCTCCCAAGACCAT--ATGTTTCATGGACTAAACACAGCAGAGAGCATCCGCTT-CA 1210  
Db 418 TGTTCAGATTAGTATACACTGACTTAAACAGCAGAGAGAGAGAGAGAGTCAAGCTTCCA 477  
QY 1211 GAGTTACTGCTGCTGAGCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGTCC 1270  
Db 478 GAGTTACTGCTGCTGAGCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGTCC 537  
QY 1271 AGTGC 1275  
Db 538 AGTGC 542

## RESULT 6

US-10-066-543-3384  
; Sequence 3384, Application US/10066543  
; Publication No. US20030087818A1  
; GENERAL INFORMATION:  
; APPLICANT: Jiang, Yugu  
; APPLICANT: Pyle, Ruth A.  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Indrias, Carol Yoseph  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Carter, Darrick  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Smith, Carole L.  
; APPLICANT: Durham, Margarita  
; APPLICANT: Stolk, John A.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; FILE REFERENCE: 210121.563  
; CURRENT APPLICATION NUMBER: US/10/066,543  
; CURRENT FILING DATE: 2002-01-31  
; NUMBER OF SEQ ID NOS: 3417  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 3384  
; LENGTH: 509  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-066-543-3384

Query Match 21.5%; Score 351.2; DB 14; Length 509;  
Best Local Similarity 84.2%; Pred. No. 6.2e-98;  
Matches 431; Conservative 0; Mismatches 75; Indels 6; Gaps 3;  
QY 734 ATTAATCTTTGAGGCTCTCGGACCATCAATTCGCTCTNTTCATCCAGAGAGAG 793  
Db 1 ATTAATCTTTGAGGCTCTCGGACCATCAATTCGCTCTNTTCATCCAGAGAGAG 60  
QY 794 TTCTTCTGCGGGTGGAGAGACTTTAAACTGTACAAGTATGATATATAACAGTGGAGAG 853  
Db 61 TTCTTCTGCGGGTGGAGAGACTTTAAACTGTACAAGTATGATATATAACAGTGGAGAG 120  
QY 854 GAGTTAGATCTTACAAAGGTCACCTTTGGTCCCAATTCAGTGTGAGAGTCACTCTCTGAT 913  
Db 121 GAATTAAGATCTTACAAAGGTCACCTTTGGTCCCAATTCAGTGTGAGAGTCACTCTCTGAT 180  
QY 914 GGGAACTCTATGCCAGGCTCTGAGATGGAGACTTGAAGTGGAGACTTGGCAACTGTGTA 973  
Db 181 GGGAACTCTATGCCAGGCTCTGAGATGGAGACTTGAAGTGGAGACTTGGCAACTGTGTA 240  
QY 974 GGAAGACCTATGCGCTGTGGAATGCGTNTTCTGAGGAGACAGCGGGGAACTGGCA 1033  
Db 241 GGAAGACCTATGCGCTGTGGAATGCGTNTTCTGAGGAGACAGCGGGGAACTGGCA 300

Query Match	18.5%;	Score 301;	DB 11;	Length 427;
Best Local Similarity	85.3%;	Prod. No. 2.1e-82;		
Matches 347;	Conservative 0;	Mismatches 57;	Indels 3;	Gaps 1;
QY	763	CAATCTCGCGCTNTTCATCCAGAGAGGAGGTTCTCTGTTGGGTGGAGAGACACTTTAA	822	
DB	11	CGATCTCGCATCTTCATCTCTGAGAAGAATTTCTGTGTCAGSGCGGTGAAGATTTAA	70	
QY	823	ACTGTACAAGTATGANTATACAGCTGGAGAGAGTTAGAAATCCTACAAAGTCACCTTGG	882	
DB	71	ACTTTATTAAGTATGANTATATAGTGGAGAGAATTTAGAAATCCTACAAAGGACACACTTGG	130	
QY	883	TCCCATTTCACTGTTGCAGATTCACTCTGATGGGAACTCTATGCCAGCGGTTCTCGAAGA	942	
DB	131	TCCATTTCACTGTTGCAGATTAGTCTCTGATGAGAACTCTATGCCAGTGGTTCAGAAGA	190	
QY	943	TGGGACATTTGAGATTGTTGGCAAACTGTGTGTAGAAAGACCTATGGCCTGTGGAAATGCGT	1002	
DB	191	TGGAAACATTTGAGACTATGGCAAACTGTGTAGAAAGAACGTATGGCCTTTTGGAAATGTGT	250	
QY	1003	GNVTCCTGAGAGAGACACGGGGAACCTGGCAAGGCCAAAGATTCGGATTTCCAGAAACACG	1062	
DB	251	GCTTCTCTGAGAAGATPAGTGTGTGAGCTGGCAAGGCCAAAGATTTGGTTTCCAGAGACAAC	310	
QY	1063	AGAGAGAGACGTGGCAGAGAAATTTGCTTTCAGAGAAATTCAGATTCCATCTATTTCATCACAC	1122	
DB	311	AGAAGAGGAGCT--AGAAGAAATTTGCTTTCAGAGAAATTCAGATTTCATCTTTCTCTTCAGC	367	
QY	1123	TCTTGAAGTTAAGSCCTGAGCATCAGAGCTGTGTGCTGCCAAACCCATA	1169	
DB	368	TCTTGATGTTAAGCCTGAGCCTCAATCATATGTTGCAGTTAGTATA	414	

RESULT 8  
US-09-815-343-740







Search completed: October 3, 2003, 13:25:51  
Job time : 987 secs

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RESULT 15
US-09-920-455-140
; Sequence 140, Application US/09920455
; Patent No. US20020168647A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY

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GenCore Version 5.1.6  
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OM protein - protein search, using sw model

Run on: October 3, 2003, 13:07:56 ; Search time 22 Seconds  
(without alignments)

675.051 Million cell updates/sec

Title: US-09-856-836-2

Perfect score: 1840

Sequence: 1 MAMRQPLFCSGHTRPVVDX.....ETIASNSDSIYSTPEVKA 351

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:\*

1: /cgn2\_6/ptodata/1/iaa/5A.COMB.pep:\*

2: /cgn2\_6/ptodata/1/iaa/5B.COMB.pep:\*

3: /cgn2\_6/ptodata/1/iaa/6A.COMB.pep:\*

4: /cgn2\_6/ptodata/1/iaa/6B.COMB.pep:\*

5: /cgn2\_6/ptodata/1/iaa/PCTUS.COMB.pep:\*

6: /cgn2\_6/ptodata/1/iaa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1779.5	96.7	350	US-08-828-922-1	Sequence 1, Appli
2	293.5	16.0	251	US-09-291-170A-13	Sequence 13, Appl
3	293.5	16.0	251	US-09-724-884-13	Sequence 13, Appl
4	288	14.6	325	US-08-828-922-3	Sequence 3, Appli
5	263.5	14.3	1194	US-09-092-508-2	Sequence 2, Appli
6	263.5	14.3	1194	US-09-435-115-2	Sequence 2, Appli
7	263.5	14.3	1194	US-09-069-023-26	Sequence 26, Appl
8	263.5	14.3	1194	US-09-098-310-2	Sequence 2, Appli
9	263.5	14.3	1205	US-09-092-508-16	Sequence 16, Appl
10	263.5	14.3	1205	US-09-435-115-16	Sequence 16, Appl
11	238.5	13.0	704	US-08-188-582-18	Sequence 18, Appl
12	238.5	13.0	704	US-08-646-715-18	Sequence 18, Appl
13	226.5	12.3	250	US-09-291-170A-12	Sequence 12, Appl
14	226.5	12.3	250	US-09-724-884-12	Sequence 12, Appl
15	222	12.1	798	US-08-190-802A-64	Sequence 64, Appl
16	222	12.1	798	US-08-190-802A-68	Sequence 68, Appl
17	222	12.1	798	US-08-308-818-2	Sequence 2, Appli
18	222	12.1	798	US-08-477-346-64	Sequence 64, Appl
19	222	12.1	798	US-08-477-346-68	Sequence 68, Appl
20	222	12.1	798	US-08-473-089-64	Sequence 64, Appl
21	222	12.1	798	US-08-473-089-68	Sequence 68, Appl
22	222	12.1	798	US-08-487-072A-64	Sequence 64, Appl
23	222	12.1	798	US-08-487-072A-68	Sequence 68, Appl
24	221.5	12.0	409	US-08-283-917-3	Sequence 3, Appli
25	221.5	12.0	409	US-08-961-716-3	Sequence 3, Appli
26	221.5	12.0	410	US-08-283-917-9	Sequence 9, Appli
27	221.5	12.0	410	US-08-961-716-9	Sequence 9, Appli

28	217	11.8	409	1	US-08-190-802A-51	Sequence 51, Appl
29	217	11.8	409	3	US-08-477-346-51	Sequence 51, Appl
30	217	11.8	409	4	US-08-473-089-51	Sequence 51, Appl
31	217	11.8	409	4	US-08-487-072A-51	Sequence 51, Appl
32	214	11.6	318	1	US-08-190-802A-33	Sequence 33, Appl
33	214	11.6	318	3	US-08-477-346-33	Sequence 33, Appl
34	214	11.6	318	4	US-08-473-089-33	Sequence 33, Appl
35	214	11.6	318	4	US-08-487-072A-33	Sequence 33, Appl
36	205.5	11.2	514	1	US-08-190-802A-66	Sequence 66, Appl
37	205.5	11.2	514	3	US-08-477-346-66	Sequence 66, Appl
38	205.5	11.2	514	4	US-08-473-089-66	Sequence 66, Appl
39	205.5	11.2	514	4	US-08-487-072A-66	Sequence 66, Appl
40	200	10.9	514	4	US-09-108-857-2	Sequence 2, Appli
41	199.5	10.8	340	1	US-08-190-802A-38	Sequence 38, Appl
42	199.5	10.8	340	3	US-08-477-346-38	Sequence 38, Appl
43	199.5	10.8	340	4	US-08-473-089-38	Sequence 38, Appl
44	199.5	10.8	340	4	US-08-487-072A-38	Sequence 38, Appl
45	199.5	10.8	340	4	US-09-245-039-1	Sequence 1, Appli

#### ALIGNMENTS

RESULT 1  
US-08-828-922-1  
; Sequence 1, Application US/08828922  
; Patent No. 5834240  
; GENERAL INFORMATION:  
; APPLICANT: Olga, Bandman  
; APPLICANT: Preeti, Lal  
; TITLE OF INVENTION: TRANSFORMING GROWTH FACTOR-B RECEPTOR  
; TITLE OF INVENTION: ASSOCIATED PROTEIN  
; NUMBER OF SEQUENCES: 3  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/828,922  
; FILING DATE: Herewith  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J.  
; REGISTRATION NUMBER: 36,749  
; REFERENCE/DOCKET NUMBER: PF-0258 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-855-0555  
; TELEFAX: 415-845-4166  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 350 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: BRAIT01  
; CLONE: 753423  
US-08-828-922-1

Query Match 96.7%; Score 1779.5; DB 2; Length 350;  
Best Local Similarity 96.0%; Pred. No. 8.3e-175;

Matches 337; Conservative 4; Mismatches 9; Indels 1; Gaps 1;

QY 1 MAMQPTLPCSGHTPPVVDYAFSGITPYGYFLISACKDGKPMLRQGTGWTGTLGHKG 60  
 Db 1 MEMRQPTLPCSGHTPPVVDYAFSGITPYGYFLISACKDGKPMLRQGTGWTGTLGHKG 60

QY 61 AVWGATLNKDAKATAAADFTAKVWDVSGDELMTLAKHIVKTVDFTDSDNYLXTGQ 120  
 Db 61 AVWGATLNKDAKATAAADFTAKVWDVSGDELMTLAKHIVKTVDFTDSDNYLXTGQ 120

QY 121 DKLLRYDLNKPAPKPSIGHTSGIKKALWCSDKQILSADDTVRLWDMHATMTEVKS 180  
 Db 121 DKLLRYDLNKPAPKPSIGHTSGIKKALWCSDKQILSADDTVRLWDMHATMTEVKS 180

QY 181 NEMSVSSMEYIPEGEILVITYGSTAFHSVSLPIKSFAPATINSASHPKEFLVA 240  
 Db 181 NEMSVSSMEYIPEGEILVITYGSTAFHSVSLPIKSFAPATINSASHPKEFLVA 240

QY 241 GGEDFKLYKYDYNSEGELESYKGFPIHCVRFSPDGELYAGSGEDGTLRLWTVVGKTY 300  
 Db 241 GGEDFKLYKYDYNSEGELESYKGFPIHCVRFSPDGELYAGSGEDGTLRLWTVVGKTY 300

QY 301 GLMKCYVPEDSGELAKPKIGFPTABEELAEIASENSDDSIYSTPEVKA 351  
 Db 301 GLMKCYLPEDSGELAKPKIGFPTABEELAEIASENSDDCIFFSAPDVKA 350

RESULT 2

US-09-291-170A-13

; Sequence 13, Application US/09291170A

; Patent No. 6410687

; GENERAL INFORMATION:

; APPLICANT: Vale, Ronald D.

; APPLICANT: Hartman, James J.

; APPLICANT: The Regents of the University of California

; TITLE OF INVENTION: Assays for the Detection of Microtubule

; TITLE OF INVENTION: Depolymerization Inhibitors

; FILE REFERENCE: 18557B-000510US

; CURRENT APPLICATION NUMBER: US/09/291,170A

; PRIOR FILING DATE: 1999-04-13

; PRIOR APPLICATION NUMBER: US 60/081,734

; PRIOR FILING DATE: 1998-04-14

; NUMBER OF SEQ ID NOS: 16

; SOFTWARE: Patent In Ver. 2.0

; SEQ ID NO 13

; TYPE: PRT

; ORGANISM: Thermomonospora curvata

; FEATURE:

; OTHER INFORMATION: putative serine/threonine kinase Pkwa WD40 repeat

; OTHER INFORMATION: region

US-09-291-170A-13

Query Match 16.0%; Score 293.5; DB 4; Length 251;

Best Local Similarity 28.5%; Pred. No. 5.6e-22;

Matches 71; Conservative 48; Mismatches 125; Indels 5; Gaps 5;

QY 48 TGDWIGTFLGHKGAVGATLNKDAKATAAADFTAKVWDVSGDELMTL-AHKHIVKTV 106  
 Db 2 SGDELHTLGHGTDWVRAVAFSPDGALLASGDDATVRLWDVAAAEERAVFEGHTVLDI 61

QY 107 DFTQDSNYLXTGGQKLLRYDLNKPAPKPSIGHTSGIKKALWCSDKQILSAD-DKT 165  
 Db 62 AFSPDGSVMASGSRDGTARLWNV-ATGTEHAVLKGHDTYVYVAFSPDGSWASGSRDGT 120

QY 166 VRLWDHATMTEVKSINFM-SVSSMEYIPEGEILVITYGSTAFHSVSLPIKSFAPA 224  
 Db 121 IRLWDVATGKERDYLQAPAEVNSVLAFLSPDGSMLVHGSSTVHLWDVAGSEALHTFEHT 180

QY 225 T-INSASXHPKEFLVAGGEDFKLYKYDYNSEGELESYKGFPIHCVRFSPDGELYAG 283  
 Db 181 DWVRAVAFSPDGALLASGDDRTIRLWDVAAQEEHTTLEGTPEVHSAFHPGEGTTLASA 240

QY 284 SEDGTIRLW 292  
 Db 241 SEDGTIRW 249

RESULT 3

US-09-724-884-13

; Sequence 13, Application US/09724884

; Patent No. 6429304

; GENERAL INFORMATION:

; APPLICANT: Vale, Ronald D.

; APPLICANT: Hartman, James J.

; APPLICANT: The Regents of the University of California

; TITLE OF INVENTION: Assays for the Detection of Microtubule

; TITLE OF INVENTION: Depolymerization Inhibitors

; FILE REFERENCE: 18557B-000510US

; CURRENT APPLICATION NUMBER: US/09/724,884

; PRIOR FILING DATE: 2000-11-28

; PRIOR APPLICATION NUMBER: 09/291,170

; NUMBER OF SEQ ID NOS: 16

; SOFTWARE: Patent In Ver. 2.0

; SEQ ID NO 13

; TYPE: PRT

; ORGANISM: Thermomonospora curvata

; FEATURE:

; OTHER INFORMATION: putative serine/threonine kinase Pkwa WD40 repeat

; OTHER INFORMATION: region

US-09-724-884-13

Query Match 16.0%; Score 293.5; DB 4; Length 251;

Best Local Similarity 28.5%; Pred. No. 5.6e-22;

Matches 71; Conservative 48; Mismatches 125; Indels 5; Gaps 5;

QY 48 TGDWIGTFLGHKGAVGATLNKDAKATAAADFTAKVWDVSGDELMTL-AHKHIVKTV 106  
 Db 2 SGDELHTLGHGTDWVRAVAFSPDGALLASGDDATVRLWDVAAAEERAVFEGHTVLDI 61

QY 107 DFTQDSNYLXTGGQKLLRYDLNKPAPKPSIGHTSGIKKALWCSDKQILSAD-DKT 165  
 Db 62 AFSPDGSVMASGSRDGTARLWNV-ATGTEHAVLKGHDTYVYVAFSPDGSWASGSRDGT 120

QY 166 VRLWDHATMTEVKSINFM-SVSSMEYIPEGEILVITYGSTAFHSVSLPIKSFAPA 224  
 Db 121 IRLWDVATGKERDYLQAPAEVNSVLAFLSPDGSMLVHGSSTVHLWDVAGSEALHTFEHT 180

QY 225 T-INSASXHPKEFLVAGGEDFKLYKYDYNSEGELESYKGFPIHCVRFSPDGELYAG 283  
 Db 181 DWVRAVAFSPDGALLASGDDRTIRLWDVAAQEEHTTLEGTPEVHSAFHPGEGTTLASA 240

RESULT 4

US-08-828-922-3

; Sequence 3, Application US/08828922

; Patent No. 5834240

; GENERAL INFORMATION:

; APPLICANT: Olga, Bandman

; APPLICANT: Preeti, Lal

; TITLE OF INVENTION: TRANSFORMING GROWTH FACTOR-B RECEPTOR

; TITLE OF INVENTION: ASSOCIATED PROTEIN

; NUMBER OF SEQUENCES: 3

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Incyte Pharmaceuticals, Inc.

; STREET: 3174 Porter Drive

; CITY: Palo Alto

; STATE: CA

; COUNTRY: USA

; ZIP: 94304

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/ INFORMATION FOR SEQ ID NO: 2:
/
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 1194 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ FRAGMENT TYPE: internal
/ US-09-092-508-2

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Query Match      14.3%; Score 263.5; DB 3; Length 1194;
Best Local Similarity 25.9%; Freq. No. 8.3e-18;
Matches 74; Conservative 51; Mismatches 126; Indels 35; Gaps 7;

QY    13 HTPRPVXAFSGTITPYGYFLISACKCKGKMLRQGDGTWIGTFLAHGAUVGATLAKDAT 72
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Db     603 HTDAVVHACFS---EDGQRASCGADKTLOVEKAETGEKLEIKAEDEVLCFASTDDR 659

QY    73 KAATAADEFKAWDVAVGDELMTL-AKHIIKYTVDFQTDSNY--LXTGGODKLRIYDL 129
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Db     660 FTATCSVDVKVKIWNSTMTELGELVHYTHDESHQYNQCHFTNSHHLLIATFGSDCEFLKWDL 719

QY    130 NKPRAPKEPESIGHTGIKKALWCSDOKQLSAD-DKTVRLWDHATMTYEVKSIAFNMSVS 188
       ||| : : : : : ||| : : : : : ||| : : : : : ||| : : : : : ||| : : : : :
Db     720 NQKECR-NTMFGHTSVNHCRFSPDOUKLLASCADBGTLKLWDATSANERKRSINQVFPELN 778

QY    189 MEYIPEGELLVTYGRSFATFSAHSVLEPIKSPSEAPATINSAXHPKEFYVAGEDPKLY 248
       || : : : : : || : : : : : || : : : : : || : : : : : || : : : : :
Db     779 LE-----DPDEDMEIVVCCSSADGARIMVAKN---KIF 811

QY    249 KYDYNNGSELESYGHGFIPIECVRFPDGLYASGSDGTLRWQT 294
       || : : : : : || : : : : : || : : : : : || : : : : : || : : : : :
Db     812 LAMTDSSAKVADCRRHLGWVHGVMFSPDGASSFLTSDDQIRLWET 857

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RESULT 6  
US-09-435-115-2  
; Sequence 2, Application US/09435115  
; Patent No. 6346607  
; GENERAL INFORMATION:  
; APPLICANT: Henzel, William J.  
; TITLE OF INVENTION: APAF-1, AN ACTIVATOR OF C ASPASE-3  
; NUMBER OF SEQUENCES: 16  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt  
; STREET: 3100 NO. 6346607west Center, 90 South Seventh St  
; CITY: Minneapolis  
; STATE: MN  
; COUNTRY: USA

FRAGMENT TYPE: internal

; SOFTWARE: PatentIn Ver. 2.0

**Q7** 249 KYDYNSEEEESYKGGPHCHVRFSPDGELSYAGSSEDGTLRLMOT 294  
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**D6** 812 LWNFTDSRKVADCRHGLSWHGVMFSPDGSFLTSSDDOTLRLMET 857

## RESULT 9

US-09-092-508-16  
 ; Sequence 16, Application US/09092508  
 ; Patent No. 6291643  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Henzel, William J.  
 ; TITLE OF INVENTION: APAF-1, AN ACTIVATOR OF C ASPASE-3  
 ; NUMBER OF SEQUENCES: 16  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt  
 ; STREET: 3100 No. 6291643 West Center, 90 South Seventh St  
 ; CITY: Minneapolis  
 ; STATE: MN  
 ; COUNTRY: USA  
 ; ZIP: 55402  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Diskette  
 ; COMPUTER: IBM Compatible  
 ; OPERATING SYSTEM: DOS  
 ; SOFTWARE: FastSeq for Windows Version 2.0  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/09/092,508  
 ; FILING DATE: 05-JUN-1998  
 ; CLASSIFICATION:  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 60/048,807  
 ; FILING DATE: 05-JUN-1997  
 ; APPLICATION NUMBER: 60/055,258  
 ; FILING DATE: 07-AUG-1997  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Kettelberger, Ph.D., Denise M  
 ; REGISTRATION NUMBER: 33,924  
 ; REFERENCE/DOCKET NUMBER: 11669, 6USU1  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 612-332-5300  
 ; TELEFAX: 612-332-9081  
 ; TELEX:  
 ; INFORMATION FOR SEQ ID NO: 16:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 1205 amino acids  
 ; TYPE: amino acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; FRAGMENT TYPE: internal  
 ; US-09-092-508-16

Query Match 14.3%; Score 263.5; DB 3; Length 1205;  
 Best Local Similarity 25.9%; Pred. No. 8.5e-18;  
 Matches 74; Conservative 51; Mismatches 126; Indels 35; Gaps 7;  
 QY 13 HTRPVVDXAFSGITPYGYFLISACKDGPMLROGDTGWDIGTFLOHKGAVWGATLNKDAT 72  
 Db 614 HTDAYVHACFS---EDGQRIASCGADKTLQVFAETGEKLEIKAHEDVILCCAFSTDDR 670  
 QY 73 KAATAAADFTAKVMDAVSGDELMTL-AHKHIVYKTVDFTDQSNY--LXTGGQDKLLRIYDL 129  
 Db 671 FIATCSVDKKYKINSMGTGELVHYDPSHQVNCCHFTNSSHLLATGSSDCFLKWL 730  
 QY 130 NKPEAPKEISGHTSGIKKALWCSDDKQILSAD-DKTVRLWDHATMTVEKSNFNPNVSS 188  
 Db 731 NQKBCR-NTMFGHTNSVNHCRFSPDDKLLASCADGTLKLDATSANERKSINVKOFFLN 789  
 QY 189 MEYIPGEILVITYGRSIAFSAVSLPEIKSFEAPATINSASXHPKEFLVAGDEPKLY 248  
 Db 790 LE-----DPQEDMEVIVKCCSWSDGARIWAAKN---KIF 822  
 QY 249 KYDYNNGEELSYKGFPGIHCVRFPSPDGELYASGSDGTLRLMOT 294  
 Db 823 LWNTDSRSKVCDCRGLSWHGVNMFSPDGSFSLTSSDDQTLRLWET 868

## RESULT 10

US-09-435-115-16  
 ; Sequence 16, Replication US/09435115  
 ; Patent No. 6346607  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Henzel, William J.  
 ; TITLE OF INVENTION: APAF-1, AN ACTIVATOR OF C ASPASE-3  
 ; NUMBER OF SEQUENCES: 16  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt  
 ; STREET: 3100 No. 6346607 West Center, 90 South Seventh St  
 ; CITY: Minneapolis  
 ; STATE: MN  
 ; COUNTRY: USA  
 ; ZIP: 55402  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Diskette  
 ; COMPUTER: IBM Compatible  
 ; OPERATING SYSTEM: DOS  
 ; SOFTWARE: FastSeq for Windows Version 2.0  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/09/435,115  
 ; FILING DATE:  
 ; CLASSIFICATION:  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 09/092,508  
 ; FILING DATE:  
 ; APPLICATION NUMBER: 60/055,258  
 ; FILING DATE: 07-AUG-1997  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Kettelberger, Ph.D., Denise M  
 ; REGISTRATION NUMBER: 33,924  
 ; REFERENCE/DOCKET NUMBER: 11669, 6USU1  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 612-332-5300  
 ; TELEFAX: 612-332-9081  
 ; TELEX:  
 ; INFORMATION FOR SEQ ID NO: 16:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 1205 amino acids  
 ; TYPE: amino acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; FRAGMENT TYPE: internal  
 ; US-09-435-115-16

Query Match 14.3%; Score 263.5; DB 4; Length 1205;  
 Best Local Similarity 25.9%; Pred. No. 8.5e-18;  
 Matches 74; Conservative 51; Mismatches 126; Indels 35; Gaps 7;  
 QY 13 HTRPVVDXAFSGITPYGYFLISACKDGPMLROGDTGWDIGTFLOHKGAVWGATLNKDAT 72  
 Db 614 HTDAYVHACFS---EDGQRIASCGADKTLQVFAETGEKLEIKAHEDVILCCAFSTDDR 670  
 QY 73 KAATAAADFTAKVMDAVSGDELMTL-AHKHIVYKTVDFTDQSNY--LXTGGQDKLLRIYDL 129  
 Db 671 FIATCSVDKKYKINSMGTGELVHYDPSHQVNCCHFTNSSHLLATGSSDCFLKWL 730  
 QY 130 NKPEAPKEISGHTSGIKKALWCSDDKQILSAD-DKTVRLWDHATMTVEKSNFNPNVSS 188  
 Db 731 NQKBCR-NTMFGHTNSVNHCRFSPDDKLLASCADGTLKLDATSANERKSINVKOFFLN 789  
 QY 189 MEYIPGEILVITYGRSIAFSAVSLPEIKSFEAPATINSASXHPKEFLVAGDEPKLY 248  
 Db 790 LE-----DPQEDMEVIVKCCSWSDGARIWAAKN---KIF 822  
 QY 249 KYDYNNGEELSYKGFPGIHCVRFPSPDGELYASGSDGTLRLMOT 294  
 Db 823 LWNTDSRSKVCDCRGLSWHGVNMFSPDGSFSLTSSDDQTLRLWET 868



Db 538 RPHNSNYVATGSDRTVRLWDLVNGNCVRIFTGHKGIHSLTSPNGRFLATGADGRV 597  
 QY 290 RLWQ----TVGKTYG-----LWKCXP-----EEDSGE 314  
 Db 598 LLDIGHGLMVGELAGHTDTCVSLRFSRDEILASGMDNTVRLWDAIKAFEDLETDFT 657  
 QY 315 LAKPKIGFETAEELAEIASENSDDSIYSTPEV 349  
 Db 658 TATGHINLPENSQELLGTMTK-----STPVV 685

RESULT 13

US-09-291-170A-12

; Sequence 12, Application US/09291170A

; Patent No. 6410687

; GENERAL INFORMATION:

; APPLICANT: Vale, Ronald D.

; APPLICANT: Hartman, James J.

; TITLE OF INVENTION: The Regents of the University of California

; TITLE OF INVENTION: Assays for the Detection of Microtubule

; TITLE OF INVENTION: Depolymerization Inhibitors

; FILE REFERENCE: 18557B-0005100S

; CURRENT APPLICATION NUMBER: US/09/291,170A

; CURRENT FILING DATE: 1999-04-13

; PRIOR APPLICATION NUMBER: US 60/081,734

; PRIOR FILING DATE: 1998-04-14

; NUMBER OF SEQ ID NOS: 16

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 12

; LENGTH: 250

; TYPE: PRT

; ORGANISM: Homo sapiens

; FEATURE:

; OTHER INFORMATION: TFIID WD40 repeat region

US-09-291-170A-12

Query Match 12.3%; Score 226.5; DB 4; Length 250;

Best Local Similarity 24.7%; Pred. No. 4.4e-15;

Matches 70; Conservative 41; Mismatches 109; Indels 63; Gaps 9;

QY 57 GHKGVWGATLNKDATKAATAADFTAKVWDVSGDELMTL-----AHKHIVKTVDF 109  
 Db 11 GHSGPYVGASFPDRNYLLSSSEDCGVRLW-----SLQTFCLVGVKGHNYPWDTQFS 64

QY 110 QDSNYLXTGGQDKLRIYDLNKPAPKEI-SCHTSGIKKALWSDDKQILSAD-DKTVR 167  
 Db 65 PYGYFVSGGHRVARLWATD--HYQLRIFAGHLADVNCFRFHPNSNYVATGSDRTYR 122

QY 168 LWDHATWTEVKSLEFNMSVSMYIPEGEILVITYGRSIATFSAVSLEPIKSFAPATIN 227  
 Db 123 LWD-----VLNGNCVRIFTGHK-----GPIH 143

QY 228 SASXHPKEFLVAGGEDFKLYKYDNGSELESYKHGPHCHVRFSPDGELYASGSDG 287  
 Db 144 SLTFSPNGRFLATGATDGRVLLDIGHGLMVGELAGHTDTCVSLRFSRDEILASGMDN 203

QY 288 TLRLWTVVGVKTYGLWKCVPXPEEDSGELAKPKIGPETAEBEL 330  
 Db 204 TVRLWDAL--KAF-----EDLETDDFTTATGHINLPENSQELL 239

RESULT 14

US-09-724-984-12

; Sequence 12, Application US/09724884

; Patent No. 6429304

; GENERAL INFORMATION:

; APPLICANT: Vale, Ronald D.

; APPLICANT: Hartman, James J.

; TITLE OF INVENTION: The Regents of the University of California

; TITLE OF INVENTION: Assays for the Detection of Microtubule

; TITLE OF INVENTION: Depolymerization Inhibitors

; FILE REFERENCE: 18557B-0005100S

; CURRENT APPLICATION NUMBER: US/09/724,884

; CURRENT FILING DATE: 2000-11-28

; PRIOR APPLICATION NUMBER: 09/291,170

; PRIOR FILING DATE: 1999-04-13

; NUMBER OF SEQ ID NOS: 16

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 12

; LENGTH: 250

; TYPE: PRT

; ORGANISM: Homo sapiens

; FEATURE:

; OTHER INFORMATION: TFIID WD40 repeat region

US-09-724-984-12

Query Match 12.3%; Score 226.5; DB 4; Length 250;

Best Local Similarity 24.7%; Pred. No. 4.4e-15;

Matches 70; Conservative 41; Mismatches 109; Indels 63; Gaps 9;

QY 57 GHKGVWGATLNKDATKAATAADFTAKVWDVSGDELMTL-----AHKHIVKTVDF 109  
 Db 11 GHSGPYVGASFPDRNYLLSSSEDCGVRLW-----SLQTFCLVGVKGHNYPWDTQFS 64

QY 110 QDSNYLXTGGQDKLRIYDLNKPAPKEI-SCHTSGIKKALWSDDKQILSAD-DKTVR 167  
 Db 65 PYGYFVSGGHRVARLWATD--HYQLRIFAGHLADVNCFRFHPNSNYVATGSDRTYR 122

QY 168 LWDHATWTEVKSLEFNMSVSMYIPEGEILVITYGRSIATFSAVSLEPIKSFAPATIN 227  
 Db 123 LWD-----VLNGNCVRIFTGHK-----GPIH 143

QY 228 SASXHPKEFLVAGGEDFKLYKYDNGSELESYKHGPHCHVRFSPDGELYASGSDG 287  
 Db 144 SLTFSPNGRFLATGATDGRVLLDIGHGLMVGELAGHTDTCVSLRFSRDEILASGMDN 203

QY 288 TLRLWTVVGVKTYGLWKCVPXPEEDSGELAKPKIGPETAEBEL 330  
 Db 204 TVRLWDAL--KAF-----EDLETDDFTTATGHINLPENSQELL 239

RESULT 15

US-08-190-802A-64

; Sequence 64, Application US/08190802A

; Patent No. 5519003

; GENERAL INFORMATION:

; APPLICANT: Mochly-Rosen, Daria

; APPLICANT: Rob, Dorit

; TITLE OF INVENTION: WD-40 - Derived Peptides and Uses

; TITLE OF INVENTION: Thereof

; NUMBER OF SEQUENCES: 265

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Dehlinger & Associates

; STREET: P.O. Box 60850

; CITY: Palo Alto

; STATE: CA

; COUNTRY: USA

; ZIP: 94306-0850

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/190,802A

; FILING DATE: 01-FEB-1994

; CLASSIFICATION: 530

; ATTORNEY/AGENT INFORMATION:

; NAME: Fabian, Gary R.

; REGISTRATION NUMBER: 33,875

; REFERENCE/DOCKET NUMBER: 8600-0139

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (415) 324-0880

; TELEFAX: (415) 324-0960

; INFORMATION FOR SEQ ID NO: 64:

; SEQUENCE CHARACTERISTICS:



; LENGTH: 798 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: unknown  
 ; MOLECULE TYPE: protein  
 ; HYPOTHETICAL: NO  
 ; ANTI-SENSE: NO  
 ; ORIGINAL SOURCE:  
 ; INDIVIDUAL ISOLATE: TUP1 HOMOLOG, Fig. 47  
 ; US-08-190-802A-64

Query Match 12.1%; Score 222; DB 1; Length 798;  
 Best Local Similarity 23.6%; Pred. No. 8.2e-14;  
 Matches 68; Conservative 45; Mismatches 115; Indels 60; Gaps 9;

QY	106	VDFQDSNYLXTGQCKLRIRYDL-----NKPRAEP--KEISGHTSGIKKA	149
Db	472	LDFSDCRIRAAAGFQDSYIKIWSLDGSSLNPNPNTALNNNDKDDPTCKTLVGHSGTVYST	531
QY	150	LWCSDKQILS-ADDKTVRLWDHATMTVEKSL-NFNMSVSSMEYIPEGE-ILVITYGRSI	206
Db	532	SFSPDNKYLSSGSDKTVRLWSMDHTALVSYKGNHPVWDVSFSLGHIYATASHDQTA	591
QY	207	AFHSASVLEPIKFEAPAT-INSAXHPEKEFLVAGGDFKLYKYDYNNGEELSYKGF	265
Db	592	RLWSCDHIYPLRIFAGHLNDVCSFHPNGCYVFTGSSDKTCRMWDVSTGDSVRLFLGT	651
QY	266	GFHCYRFSPDGEIYASGSDGTLRLWQTVYVK-----	298
Db	652	APVISIACPDGRWLSTGSDGLIINWDIGTKRLKMRGHGKNATYSLSYSKGNVLIS	711
QY	299	-----TYGLMKC-VXPEDSGELAKPKIGFPETAEEELAEELIASNSD	340
Db	712	GGADHTVRVMDLKKATPEPSABPDEFFIGY-----LGDVTASINQD	752

Search completed: October 3, 2003, 15:04:24  
 Job time: 24 secs

Result No.	Score	Query		Length	DB	ID	Description
		Match					
1	1347.5	73.2	282	9	US-09-925-301-1362		Sequence 1362, Ap
2	312.5	17.0	1356	14	US-10-077-111-10		Sequence 10, Appl
3	300	16.3	742	14	US-10-077-111-11		Sequence 11, Appl
4	292.5	15.9	350	12	US-10-032-585-7426		Sequence 7426, Ap
5	272.5	14.8	521	9	US-09-764-853-449		Sequence 449, App
6	271	14.7	340	15	US-10-128-714-8037		Sequence 8037, Ap
7	263.5	14.3	1194	10	US-09-876-667-2		Sequence 2, Appli
8	263.5	14.3	1194	12	US-10-141-618-10		Sequence 10, Appl
9	263.5	14.3	1205	10	US-09-876-667-16		Sequence 16, Appl
10	226	12.3	520	12	US-10-032-585-7220		Sequence 7220, Ap
11	224.5	12.2	797	12	US-10-032-585-7208		Sequence 7208, Ap
12	220	12.0	485	15	US-10-132-744A-6		Sequence 6, Appli
13	218	11.8	278	15	US-10-128-714-3037		Sequence 3037, Ap
14	216	11.7	902	15	US-10-128-714-8346		Sequence 8346, Ap
15	215	11.7	902	15	US-10-128-714-3346		Sequence 3346, Ap

Db 73 GHTSGIKKALWCSDKQILSADDTKTVRLWDHATMTVEVKSINFNSVSSMEYIPGEILVI 132  
QY 201 TYGRSTAFHSVLSPIKSFAPATINSASXHPKEFLVAGGDFKLYKYDYNNGEELS 260  
Db 133 TYGRSTAFHSVLSPIKSFAPATINSASXHPKEFLVAGGDFKLYKYDYNNGEELS 192  
QY 261 YKGFHGPICVRFSPDGELYAGSGDGTLRWOTVVGKTYGLWKVXPEEDSGELAKPKI 320  
Db 193 YKGFHGPICVRFSPDGELYAGSGDGTLRWOTVVGKTYGLWKVXPEEDSGELAKPKI 252  
QY 321 GFPTAEELAEIASENSDDSIYSSTPEVKA 351  
Db 253 GFPTAEELAEIASENSDDSIYSSTPEVKA 282  
RESULT 2  
US-10-077-111-10  
; Sequence 10, Application US/10077111  
; Publication No. US20020187492A1  
; GENERAL INFORMATION:  
; APPLICANT: Todderud, C. Gordon  
; APPLICANT: Finger, Joshua N.  
; APPLICANT: Rillema, Jill  
; TITLE OF INVENTION: TBA  
; FILE REFERENCE: 3053-4114US2  
; CURRENT APPLICATION NUMBER: US/10/077,111  
; PRIOR FILING DATE: 2002-02-15  
; PRIOR APPLICATION NUMBER: 60/294,181  
; PRIOR FILING DATE: 2001-05-29  
; PRIOR APPLICATION NUMBER: 60/269,366  
; PRIOR FILING DATE: 2001-02-16  
; NUMBER OF SEQ ID NOS: 25  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 10  
; LENGTH: 1356  
; TYPE: PRT  
; ORGANISM: Podospora anserina  
; FEATURE:  
; OTHER INFORMATION: beta transducin-like protein encoded by the  
US-10-077-111-10  
Query Match 17.0%; Score 312.5; DB 14; Length 1356;  
Best Local Similarity 27.9%; Pred. No. 4.7e-22;  
Matches 94; Conservative 61; Mismatches 161; Indels 21; Gaps 9;  
QY 9 TCSGHTRPVVDXAFSGITPYGYFLISACKDGKPMLRQGGTGDWIGTFLGHKGAVGATLN 68  
Db 878 TLEGGGWSVWAFS---PDRERVASDDRTIKINDAASGCTCTGLEHGGRRVQSVAFS 934  
QY 69 KDATKAATAADFTAKVWDVAVSGDELMTL-AHKHIYKTVDFTDQDSNYLXTGGQDKLIRY 127  
Db 935 PDGQRVASGSDHDTIKINDAASGCTCTGLEHGGWSVLSVAFSPDQQRVASGSDGTIKIW 994  
QY 128 DLNPEAPEKEISGHTSGIKKALWCSDKQILS-ADTKTVRLWDHATMTVEVKSINFNS- 185  
Db 995 DTASGCT-TCTLEGGGWSVWAFSPDQQRVASGSDDKTIKIWDASGCTCTQTLLEGHGGW 1053  
QY 186 VSSMEYIPEGE-LLVITYGRSTAFHSVLSPIKSFAPATINSASXHPKEFLVAGGE 243  
Db 1054 VQSVFSPDQQRVASGSDHDTIKINDAASGCTCTQTLLEGHGGWSVLSVAFSPDQQRVASGSI 1113  
QY 244 DFILKYKYDYNNGEELS YKGFHGPICVRFSPDGELYAGSGDGTLRWOTVVGKTYGLW 303  
Db 1114 DGTIKINDAASGCTCTQTLLEGHGGWSVLSVAFSPDQQRVASGSDGTIKINDAASG----- 1167  
QY 304 KCVPEEDSGELAKPKIGPPTAEELAEIASENSDD 340  
Db 1168 TCTQTLLEGHGGWSVLSVAFSPD-----GQRVASGSSD 1198

RESULT 3

US-10-077-111-11  
; Sequence 11, Application US/10077111  
; Publication No. US20020187492A1  
; GENERAL INFORMATION:  
; APPLICANT: Todderud, C. Gordon  
; APPLICANT: Finger, Joshua N.  
; APPLICANT: Rillema, Jill  
; TITLE OF INVENTION: TBA  
; FILE REFERENCE: 3053-4114US2  
; CURRENT APPLICATION NUMBER: US/10/077,111  
; CURRENT FILING DATE: 2002-02-15  
; PRIOR APPLICATION NUMBER: 60/294,181  
; PRIOR FILING DATE: 2001-05-29  
; PRIOR APPLICATION NUMBER: 60/269,366  
; PRIOR FILING DATE: 2001-02-16  
; NUMBER OF SEQ ID NOS: 25  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 11  
; LENGTH: 742  
; TYPE: PRT  
; ORGANISM: Thermomonospora curvata  
; FEATURE:  
; OTHER INFORMATION: amino acid sequence encoded by the PKWA gene  
US-10-077-111-11  
Query Match 16.3%; Score 300; DB 14; Length 742;  
Best Local Similarity 28.9%; Pred. No. 3.5e-21;  
Matches 82; Conservative 50; Mismatches 140; Indels 12; Gaps 8;  
QY 15 RPVVDAFSGITPYGYFLISACKDGKPMLRQGGTGDWIGTFLGHKGAVGATLNKDAT 72  
Db 460 REAVAVAFS---PGGSL--AGSGDKLIHVMDVASGDELHTEGHTDWRVAVAFSPDGA 514  
QY 73 KAATAAADFTAKVWDVAVSGDELMTL-AHKHIYKTVDFTDQDSNYLXTGGQDKLIRYDLNK 131  
Db 515 LLASGSDATVRLWDVAAAEERAVFEGHTHYVLDIAFSPGWSVASSRGTARLNNV-A 573  
QY 132 PEAPKEISGHTSGIKKALWCSDKQILSAD-DKTVRLWDHATMTVEVKSINFNS-SVSSM 189  
Db 574 TGTEHAVLKGHTDYVAVAFSPDGSVMASGSRDGIIRLWDVATGKERDVLQAPENVS 633  
QY 190 EYIPEGEILVITYGRSTAFHSVLSPIKSFAPATINSASXHPKEFLVAGGDFKLY 248  
Db 634 AFSPDGSMVHGSDSTVRLWDVAVSGEALHTFEGHTDWRVAVAFSPDGAALLASGDDRTIR 693  
QY 249 KYDYNNGEELS YKGFHGPICVRFSPDGELYAGSGDGTLRW 292  
Db 694 LNDVAAQBEHTLEGHTTEPVHSAFHPGEGTTLASASEDGTIRW 737  
RESULT 4  
US-10-032-585-7426  
; Sequence 7426, Application US/10032585  
; Publication No. US20030180953A1  
; GENERAL INFORMATION:  
; APPLICANT: Terry, Roemer D.  
; APPLICANT: Bo, Jiang  
; APPLICANT: Charles, Boone  
; APPLICANT: Howard, Bussey  
; TITLE OF INVENTION: Gene Disruption Methodologies for Drug Target Discovery  
; FILE REFERENCE: 10182-005-999  
; CURRENT APPLICATION NUMBER: US/10/032,585  
; CURRENT FILING DATE: 2001-12-20  
; NUMBER OF SEQ ID NOS: 8000  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 7426  
; LENGTH: 350  
; TYPE: PRT  
; ORGANISM: Candida albicans  
US-10-032-585-7426  
Query Match 15.9%; Score 292.5; DB 12; Length 350;  
Best Local Similarity 26.5%; Pred. No. 6.4e-21;

Query Match	14.8%;	Score 272.5;	DB 9;	Length 521;
Best Local Similarity	26.0%;	Pred. No. 1.2e-18;		
Matches	82;	Conservative 54;	Mismatches 140;	Indels 39; Gaps 8
QY	6	TPLCSGHTPRPVDDXAFS-----IPYGYFLISACKDGRFMLRQGGDTGDWIGTEL	56	
Db	41	TPPMASATDPVLERFYFGHKAATSLDLSGNGKQIATASWDTFLMLNFKPHARIVR	100	
QY	57	GHKGAVGATLNDKATKATAAADFTAKVNDVDSGDELMTL-AHKHIVKTVDFQDSNYL	115	
Db	101	GHKDVTVSQVSPHGNLLASASRDTVRLMIPDKRGKFEFKAHTAPVRSVDFSDAQFL	160	
QY	116	YTGQCDXLLRIYDLNKPENAPEKETSHTSGIKALKWCSDDKOILS-ADDTVRLWDRN	174	
Db	161	ATASEDSIKVWSMYR-QRFYLSYRTHVWRCAKTFSPGRLTVSCSEDETKIKWDTNK	219	
QY	175	TEVKSILNFNMVSSMRYI---PEGEILVITVGRSIAFHSVAVLEPIKSFAPAT-----	225	
Db	220	QCVN--NFSQVGFANFVDFNPSGTCIA-----SAGSDQVVKVWDVFNKLLQHY	267	
QY	226	-----INSASXHPKEFLVAGGEDFKLYKYDYNSEELSYKHFGPPIHCVRFSPDGL	279	
Db	268	QVHSGGVNCSFHPGSNYLLITASSDGTILKLDLLEGRLLYITLQGHGPVTVFSKGCEL	327	
QY	280	YASGEDGTURLMOT	294	
Db	328	FASGGADTVQLLWRT	342	

```

CORRESPONDENCE ADDRESS:
ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt
STREET: 3100 No. US20020107370Alwest Center, 90 South Seventh St
CITY: Minneapolis
STATE: MN
COUNTRY: USA
ZIP: 55402

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
  APPLICATION NUMBER: US/09/876,667
  FILING DATE: 07-Jun-2001
  CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: 09/435,115
  FILING DATE: <Unknown>
  APPLICATION NUMBER: 60/055,258
  FILING DATE: 07-AUG-1997
ATTORNEY/AGENT INFORMATION:
  NAME: Kettelberger, Ph.D., Denise M
  REGISTRATION NUMBER: 33,924
  REFERENCE/DOCKET NUMBER: 11669.6USU1
  TELECOMMUNICATION INFORMATION:
    TELEPHONE: 612-332-5300
    TELEFAX: 612-332-9081
    TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 2:
  SEQUENCE CHARACTERISTICS:
    LENGTH: 1194 amino acids
    TYPE: amino acid
    STRANDEDNESS: single
    TOPOLOGY: linear
  MOLECULE TYPE: protein
  FRAGMENT TYPE: internal
  SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-876-667-2

      Query Match      14.3%; Score 263.5; DB 10; Length 1194;
      Best Local Similarity 25.9%; Pred. No. 3.4e-17;
      Matches 74; Conservative 51; Mismatches 126; Indels 35; Gaps 7;

QY 13 HTRPVVDXAFSGITPYGYFLISACKDGPMLRQGTGDTGWTGFLGHKGAVWGATLNKDAT 72
   || || || || || || || || || || || || || || || || || || || || ||
Db 603 HTDAYVHACFS---EDQRIASCGADKTLQVFKAEKGKLEIKAHEDDEVLCASFDDR 659

QY 73 KAATAAADFTAKVWDVAVSGDELMTL-AHKHIVKTVDFDTQDSNY--LXTGGQDKLLRIYDL 129
   || || || || || || || || || || || || || || || || || || || || ||
Db 660 FIATCSVDKKYKINWSMTGELVHTYDEHSEQVNCCHFTNSHLLLATGSSDCFLKLWDL 719

QY 130 NKPEAPEKEISGHVSGIKKALWCSDDKQLLSAD-DKTVRLWDHATVTEVKSINFMNVS 188
   || || || || || || || || || || || || || || || || || || || || ||
Db 720 NQKECR-NTMFGHTNSVNHCRSPDDKLLASCSDAGTLKWDATSANERKSNVQKFFLN 778

QY 189 MEYIPEGEILVITVGRSIAFHSVLSLEPIKSFAPATINSAXHPKEFLVAGGEDFKLY 248
   || || || || || || || || || || || || || || || || || || || || ||
Db 779 LE-----DQEDMEVIVKCCSWSDAGARIMVAKN---KIF 811

QY 249 KYDYSNGEELSYKHPHCVRFSPDGELYASGSEDTGLRLWQT 294
   || || || || || || || || || || || || || || || || || || || || ||
Db 812 LWNIDRSKVDRCRHLVSWHGVMSFGDSSFLTSSDDQIRLWET 857

RESULT 8
US-10-141-618-10
; Sequence 10, Application US/10141618
; Publication No. US20030165887A1
; GENERAL INFORMATION:
; APPLICANT: Reed, John C.
; TITLE OF INVENTION: Methods For Determining the Prognosis
; TITLE OF INVENTION: For Cancer Patients Using Tscan

CORRESPONDENCE ADDRESS:
ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt
STREET: 3100 No. US20020107370Alwest Center, 90 South Seventh St
CITY: Minneapolis
STATE: MN
COUNTRY: USA
ZIP: 55402

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
  APPLICATION NUMBER: US/09/876,667
  FILING DATE: 07-Jun-2001
  CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: 09/435,115
  FILING DATE: <Unknown>
  APPLICATION NUMBER: 60/055,258
  FILING DATE: 07-AUG-1997
ATTORNEY/AGENT INFORMATION:
  NAME: Kettelberger, Ph.D., Denise M
  REGISTRATION NUMBER: 33,924
  REFERENCE/DOCKET NUMBER: 11669.6USU1
  TELECOMMUNICATION INFORMATION:
    TELEPHONE: 612-332-5300
    TELEFAX: 612-332-9081
    TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 2:
  SEQUENCE CHARACTERISTICS:
    LENGTH: 1194 amino acids
    TYPE: amino acid
    STRANDEDNESS: single
    TOPOLOGY: linear
  MOLECULE TYPE: protein
  FRAGMENT TYPE: internal
  SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-876-667-2

      Query Match      14.3%; Score 263.5; DB 10; Length 1194;
      Best Local Similarity 25.9%; Pred. No. 3.4e-17;
      Matches 74; Conservative 51; Mismatches 126; Indels 35; Gaps 7;

QY 13 HTRPVVDXAFSGITPYGYFLISACKDGPMLRQGTGDTGWTGFLGHKGAVWGATLNKDAT 72
   || || || || || || || || || || || || || || || || || || || || ||
Db 603 HTDAYVHACFS---EDQRIASCGADKTLQVFKAEKGKLEIKAHEDDEVLCASFDDR 659

QY 73 KAATAAADFTAKVWDVAVSGDELMTL-AHKHIVKTVDFDTQDSNY--LXTGGQDKLLRIYDL 129
   || || || || || || || || || || || || || || || || || || || || ||
Db 660 FIATCSVDKKYKINWSMTGELVHTYDEHSEQVNCCHFTNSHLLLATGSSDCFLKLWDL 719

QY 130 NKPEAPEKEISGHVSGIKKALWCSDDKQLLSAD-DKTVRLWDHATVTEVKSINFMNVS 188
   || || || || || || || || || || || || || || || || || || || || ||
Db 720 NQKECR-NTMFGHTNSVNHCRSPDDKLLASCSDAGTLKWDATSANERKSNVQKFFLN 778

QY 189 MEYIPEGEILVITVGRSIAFHSVLSLEPIKSFAPATINSAXHPKEFLVAGGEDFKLY 248
   || || || || || || || || || || || || || || || || || || || || ||
Db 779 LE-----DQEDMEVIVKCCSWSDAGARIMVAKN---KIF 811

QY 249 KYDYSNGEELSYKHPHCVRFSPDGELYASGSEDTGLRLWQT 294
   || || || || || || || || || || || || || || || || || || || || ||
Db 812 LWNIDRSKVDRCRHLVSWHGVMSFGDSSFLTSSDDQIRLWET 857

RESULT 9
US-09-876-667-16
; Sequence 16, Application US/09876667
; Patent No. US20020107370A1
; GENERAL INFORMATION:
; APPLICANT: Henzel, William J.
; TITLE OF INVENTION: APAF-1, AN ACTIVATOR OF C ASPASE-3
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt
; STREET: 3100 No. US20020107370Alwest Center, 90 South Seventh St
; CITY: Minneapolis
; STATE: MN
; COUNTRY: USA
; ZIP: 55402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/876,667
; FILING DATE: 07-Jun-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/435,115
; FILING DATE: <Unknown>
; APPLICATION NUMBER: 60/055,258
; FILING DATE: 07-AUG-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Kettelberger, Ph.D., Denise M
```

Query Match	12.3%;	Score 226;	DB 12;	Length 520;
Best Local Similarity	23.1%;	Pred. No. 6.1e-14;		
Matches	80;	Conservative 52;	Mismatches 109;	Indels 106;
			Gaps 14;	

RESULT 12  
US-10-132-744A-6  
; Sequence 6, Application US/10132744A  
; Publication No. US20030027261A1  
; GENERAL INFORMATION:

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; PRIOR APPLICATION NUMBER: US 60/295,890
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US 60/303,899
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: US 60/316,362
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 8603
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3037
; LENGTH: 278
; TYPE: PRT
; ORGANISM: Aspergillus fumigatus
US-10-128-714-8346

Query Match          11.8%; Score 218; DB 15; Length 278;
Best Local Similarity 22.3%; Pred. No. 1.5e-13;
Matches 63; Conservative 58; Mismatches 93; Indels 68; Gaps 8;

QY      51 WIGTFGLGHGAVWGATLNKDATKAARAADFTAKVWDAYSDGELMLAHKHIVKYVDFTQ 110
        | ||||| : : || ||| :| :| :| :| :| :| :| :| :| :| :| :| :| :|
Db       8 WRRIREFHOGAGIWTVDVSPTVLATGSADNTVRLWNVTKGECVKVWDEFTAVKRVAFNP 67

QY      111 DSNLYXTGGDKL-----LRVIDLNKPPEAPKEIFSGHTSGIKKALWCSDDKQLLSADDKT 165
        | | | : : | :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|
Db       68 DGRLLAVTEKRMGFLGTIAVIDLVNGDSO-----GGLEN-----QADEF 109

QY      166 VRLWDHATMTVEKSLNFNMYSMMXI-----PEGEI-----LVIITG 203
        :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|
Db      110 LRI-----TCTESKA-----TVAGWSYLGVIIAGHDGVSQYDGFESQDRTYFITASK 160

QY      204 RSTAFHSANVLEPIKSFPAPATINSAXIPEKFEFLVAGED-----FKLYK 249
        :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|
Db      161 KSAKLSSRNAAILATKYVADYPLNSATITPKDYVILGGGAAMDVTTTSAROGKFEARF 220

QY      250 YDNXSELESLEYKHFGFIHCVRPSPDGELYASGEDGTGLR 291
        | :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|
Db      221 YHKVFEDTGVRGHPGPLNVDVPHFNGTAYASGGEDGYRV 262


RESULT 14
US-10-128-714-8346
; Sequence 8346, Application US/10128714
; Publication No. US20030119013A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Bo
; APPLICANT: Hu, Wenqi
; APPLICANT: Tishkoff, Daniel
; APPLICANT: Zamudio, Carlos
; APPLICANT: Eroshkin, Alexey M
; APPLICANT: Lemieux, Sebastien M
; TITLE OF INVENTION: Identification of Essential Genes in Aspergillus fumigatus and
; TITLE OF INVENTION: Methods of Use
; FILE REFERENCE: 10182-018-999
; CURRENT APPLICATION NUMBER: US/10128,714
; CURRENT FILING DATE: 2002-04-23
; PRIOR APPLICATION NUMBER: US 60/285,697
; PRIOR FILING DATE: 2001-04-23
; PRIOR APPLICATION NUMBER: US 60/287,066
; PRIOR FILING DATE: 2001-04-27
; PRIOR APPLICATION NUMBER: US 60/295,890
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US 60/303,899
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: US 60/316,362
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 8603
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 8346
; LENGTH: 902
; TYPE: PRT
; ORGANISM: Aspergillus fumigatus
US-10-128-714-8346
```

